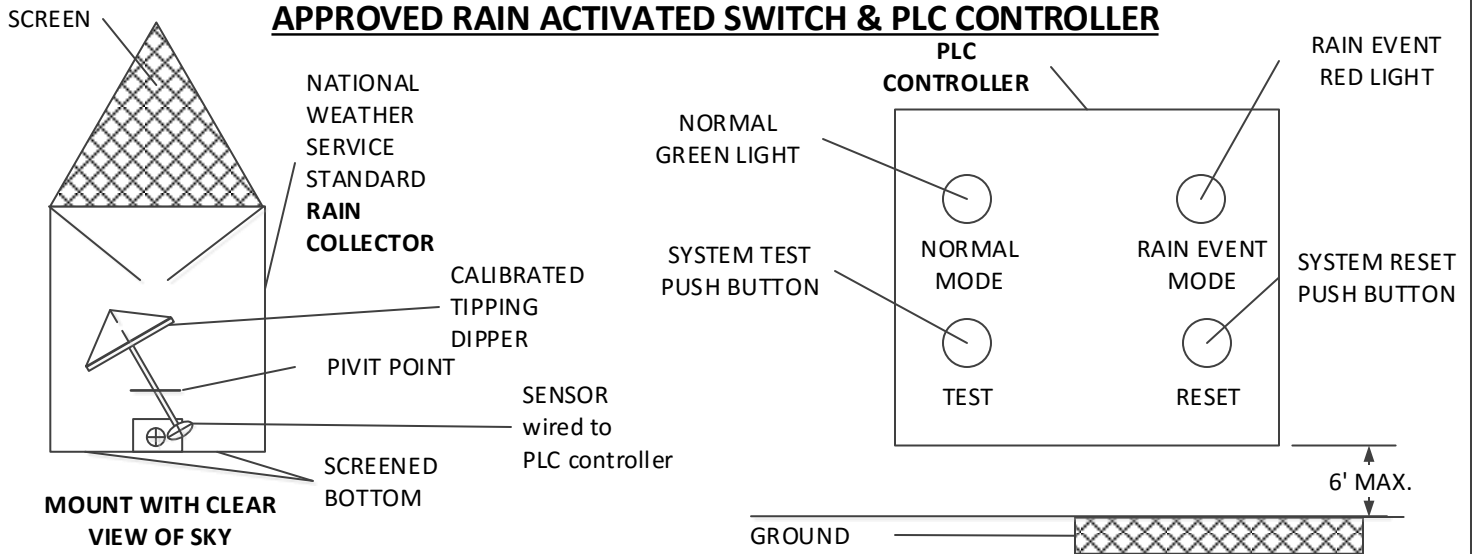
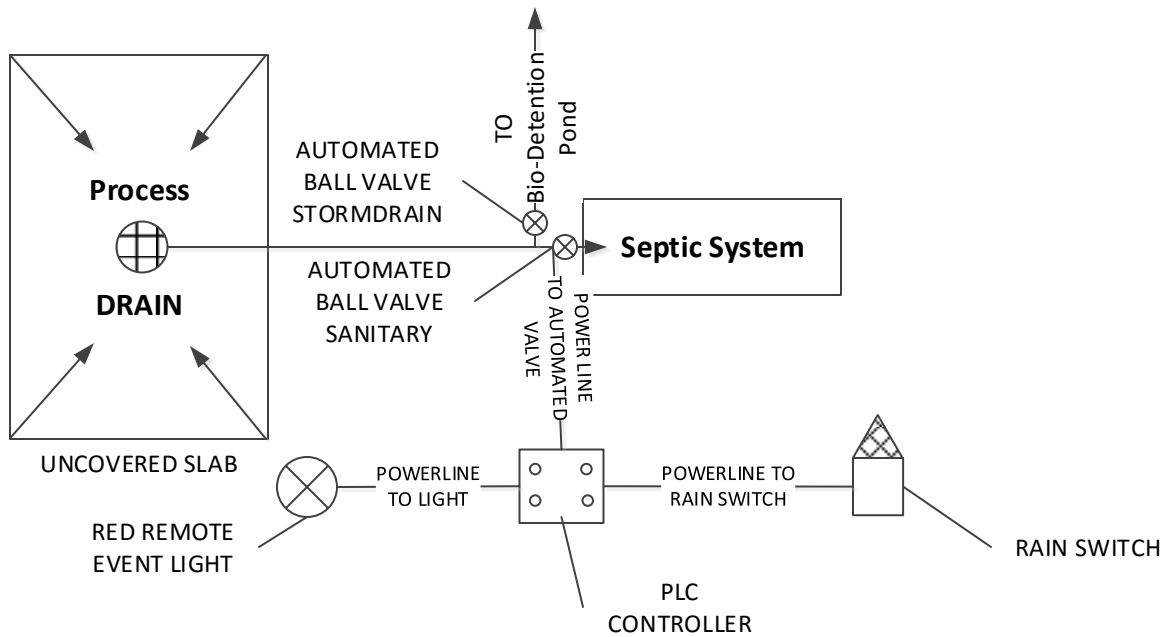


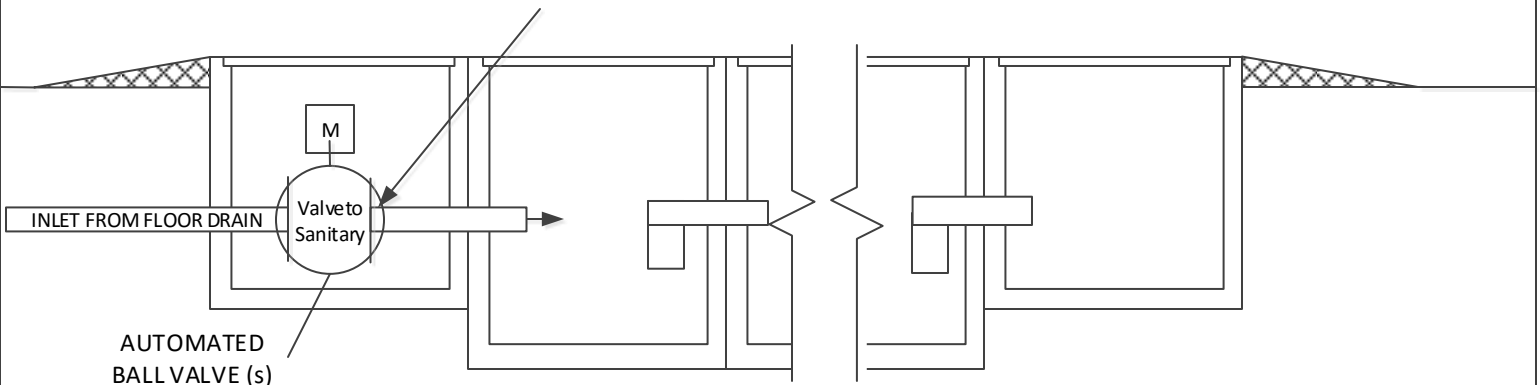
APPROVED RAIN ACTIVATED SWITCH & PLC CONTROLLER



SYSTEM LAYOUT



SECTION A-A



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REV 0	AUTOMATIC STORMWATER DIVERSION SYSTEM	2/15/2014	STANDARD PLAN 3-WAY AUTOMATED VALVE SHEET 1 of 2
TITTLE APPROVED			

NOTES

1. THE RAIN SWITCH WILL PROVIDE A SIGNAL TO THE AUTOMATED VALVE TO SHUT OFF ACCESS TO THE SEPTIC SYSTEM AND OPEN ACCESS TO THE BIO-DETENTION POND AFTER 0.1" OF RAINFALL OVER ANY CONTINUOUS 60 MINUTE PERIOD.
2. VALVE WILL BE FULL PORT DESIGN TO PREVENT DEBRIS FROM BACKING UP FLOW.
3. ALL WATER MUST ENTER THRU THE INLET PIPE ONLY. ALL SURFACE WATER MUST DRAIN AWAY FROM THE SEPTIC SYSTEM TO EXCLUDE RAINWATER FROM THE SEPTIC SYSTEM.
4. THE RAIN COLLECTOR MUST BE LOCATED FREE FROM OBSTRUCTION AND VERTICALLY ABOVE THE RAINSWITCH MUST ALWAYS HAVE A CLEAR VIEW OF THE SKY.
5. AUTOMATED VALVE WILL BE RATED FOR SUBMERSION.
6. VALVES WILL BE DESIGNED AND CONFIGURED AS (2) 2-WAY FULL PORT BALL VALVES WITH AN INLET FROM THE UNCOVERED SLAB AND OUTLET NORMALLY TO THE SEPTIC SYSTEM HOWEVER CAN DIVERT TO THE BIO-DETENTION POND IN STORM EVENT .
7. THE VALVES WILL ALSO HAVE A PROVISION TO AUTOMATICALLY FULLY CLOSE AND THEN FULLY OPEN THE VALVE AT LEAST EVERY 30 DAY SHOULD IT NOT OTHERWISE BE EXERCISED BY STORM EVENT OR OTHERWISE EXERCISING TO KEEP THE VALVE AND ACTUATOR IN GOOD RUNNUNG ORDER.
8. THE CONTROLLER WILL INDICATE BY CONTINUALLY BLINKING LIGHTS SHOULD THE AUTOMATED VALVE EVER BECOME DISABLED AND NOT REACH ITS INTENDED POSITION.
9. THE AUTOMATED VALVE MUST HAVE A MANUAL OVERRIDE INCASE OF LOSS OF POWER
10. PLC SHALL AUTOMATICALLY RESTART UPON RESTORATION OF ELECTRICITY AFTER A POWER OUTAGE.

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